

Fig. 1A

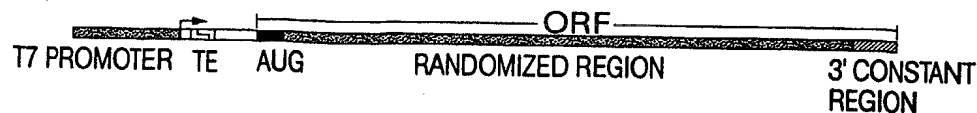


Fig. 1B

PUROMYCIN-TETHERED OLIGO IS LIGATED TO mRNA (GENERATED FROM ABOVE CONSTRUCT) IN THE PRESENCE OF A SPLINT AND DNA LIGASE

NOTE: FOR SHORT ORFS, THIS WHOLE TEMPLATE CAN BE MADE SYNTHETICALLY

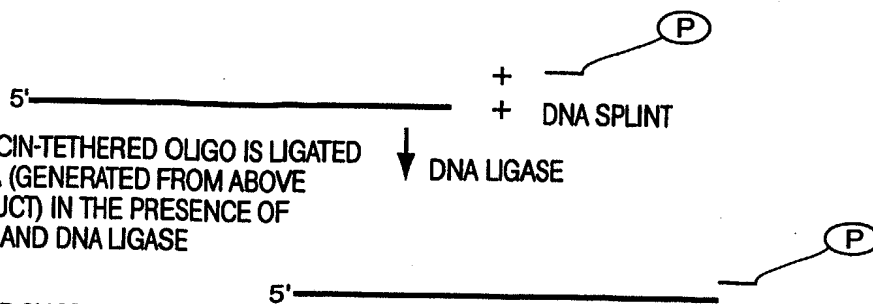
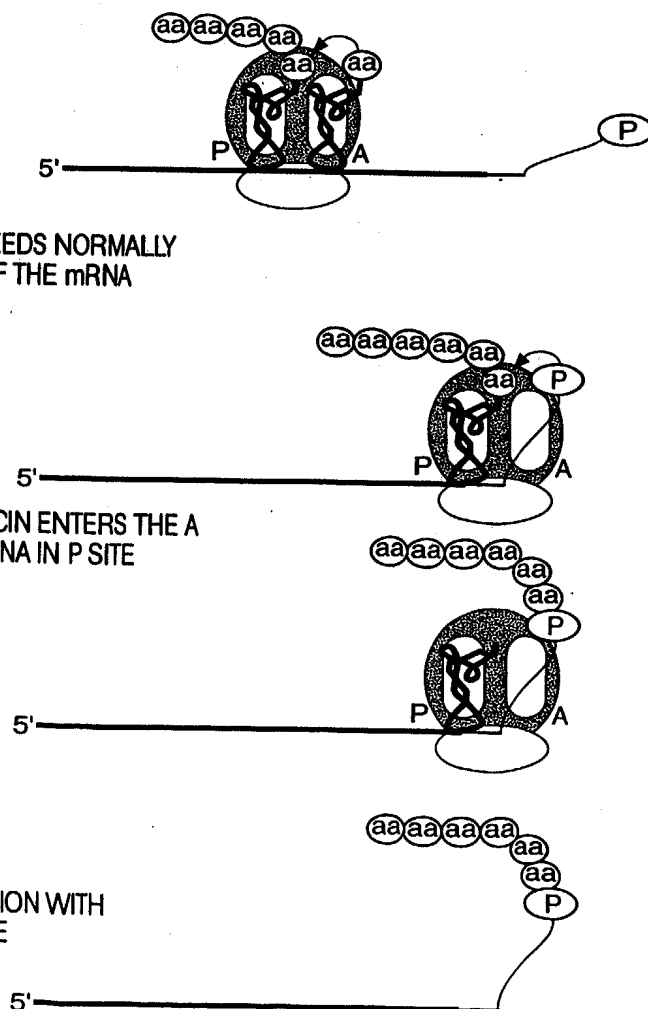


Fig. 1C

IN VITRO TRANSLATION PROCEEDS NORMALLY FROM THE 5' TO THE 3' END OF THE mRNA

COVALENTLY LINKED PUROMYCIN ENTERS THE A SITE AND ATTACKS PEPTIDYL tRNA IN P SITE

RELEASE OF RNA-PROTEIN FUSION WITH HIGH SALT WASH OF RIBOSOME



GENERALIZED PROTOCOL FOR SELECTION EXPERIMENTS

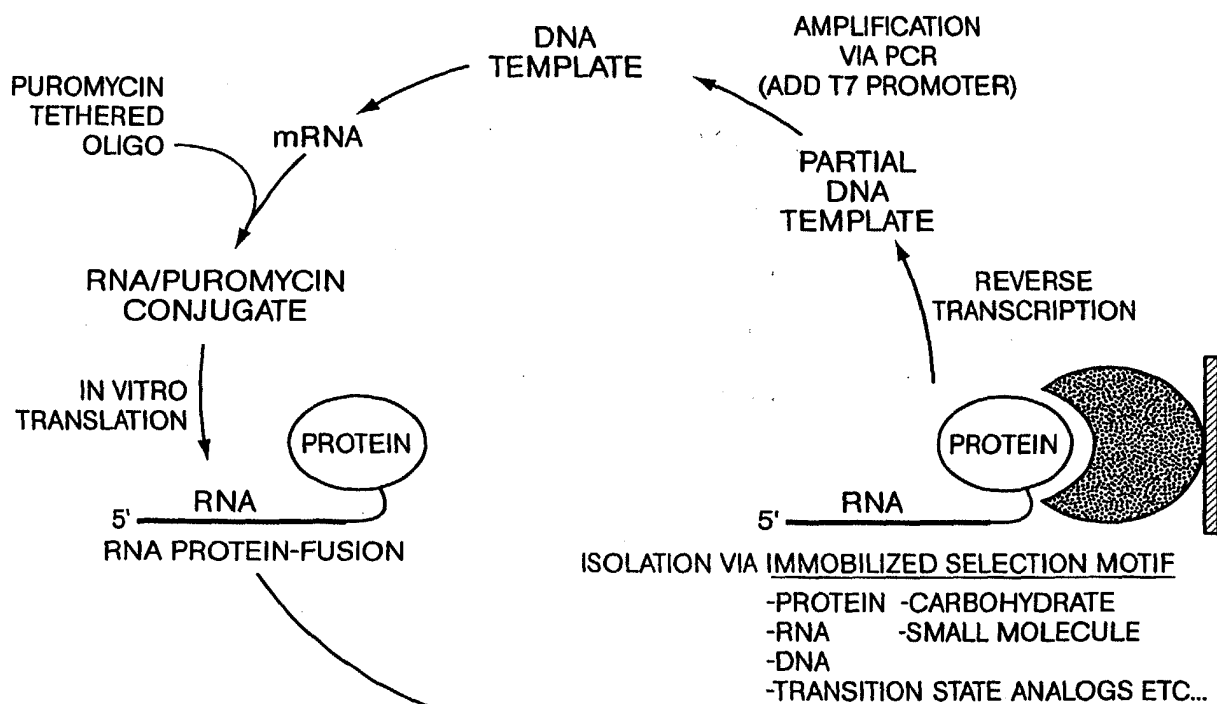


Fig. 2

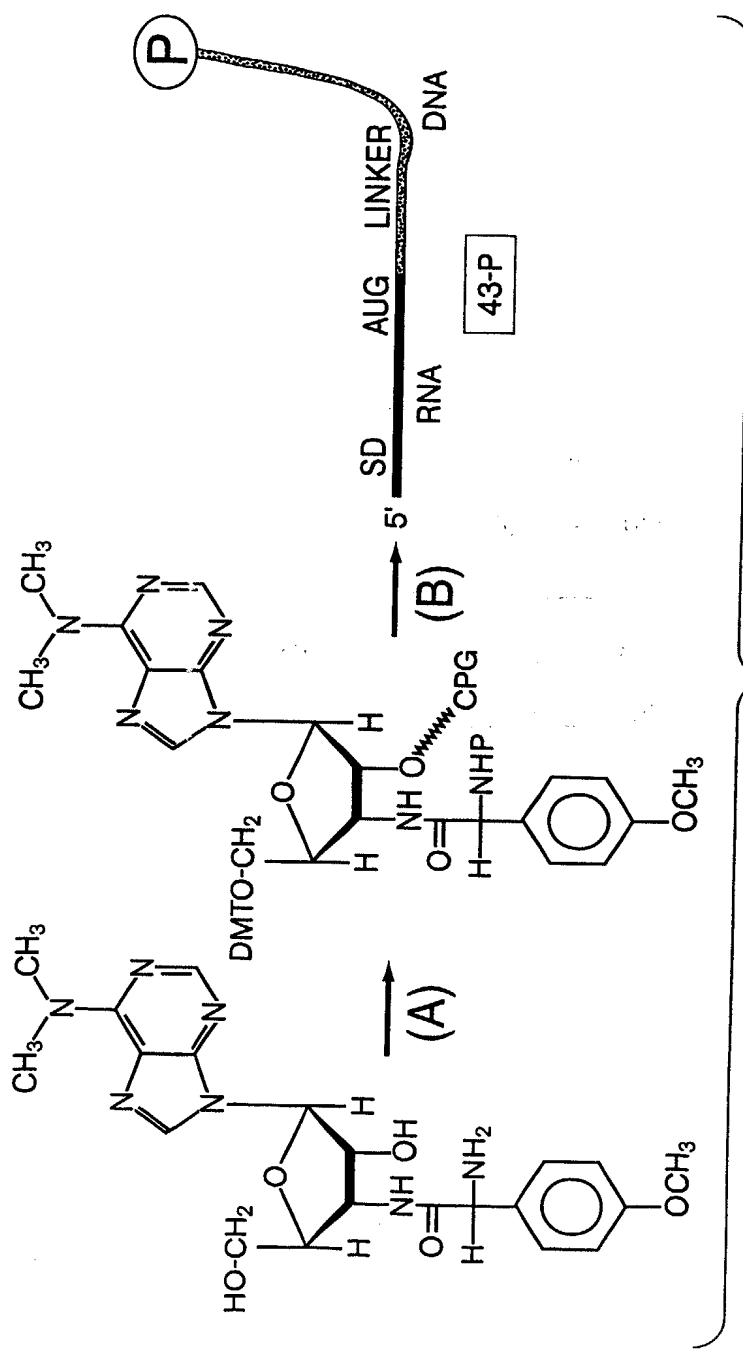


Fig. 3

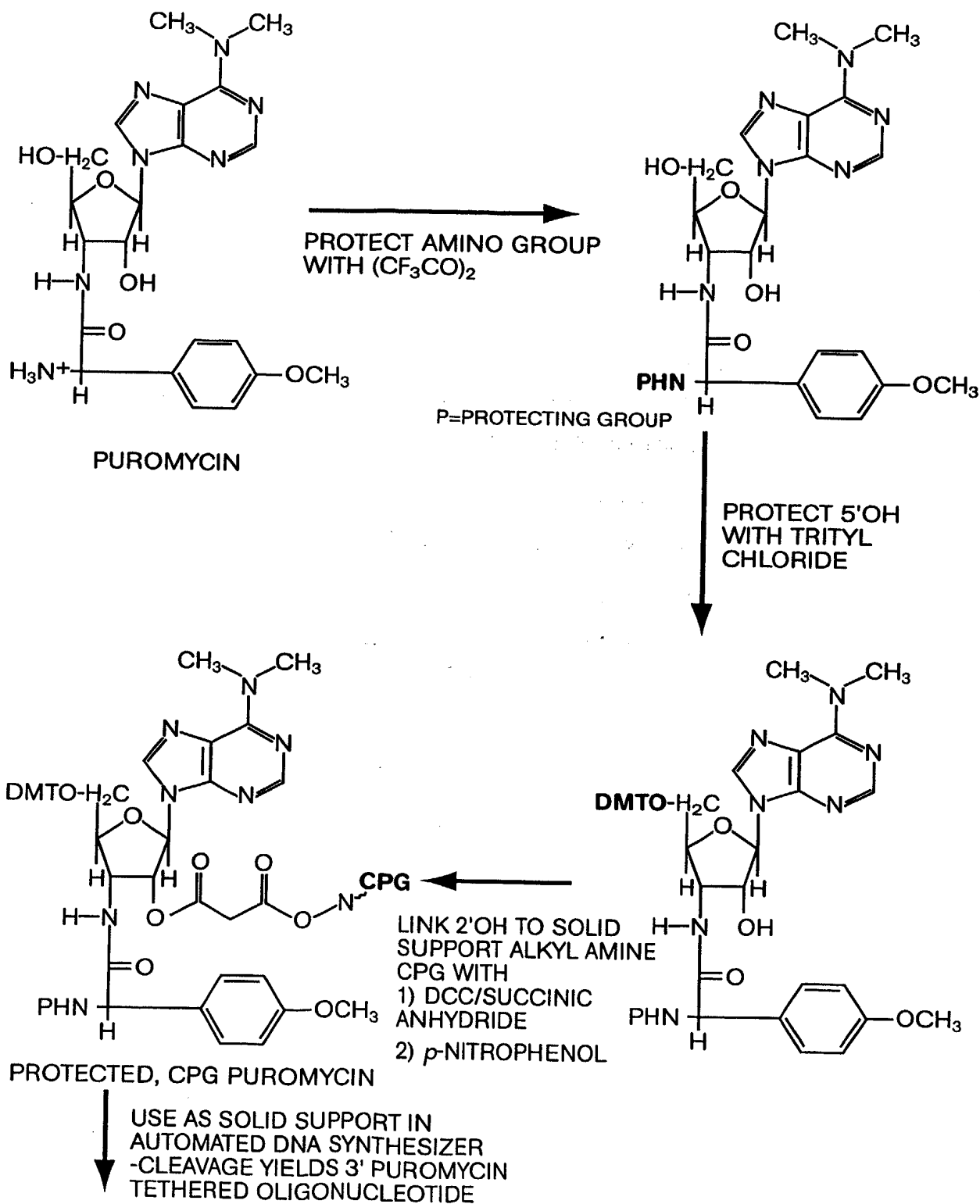


Fig. 4

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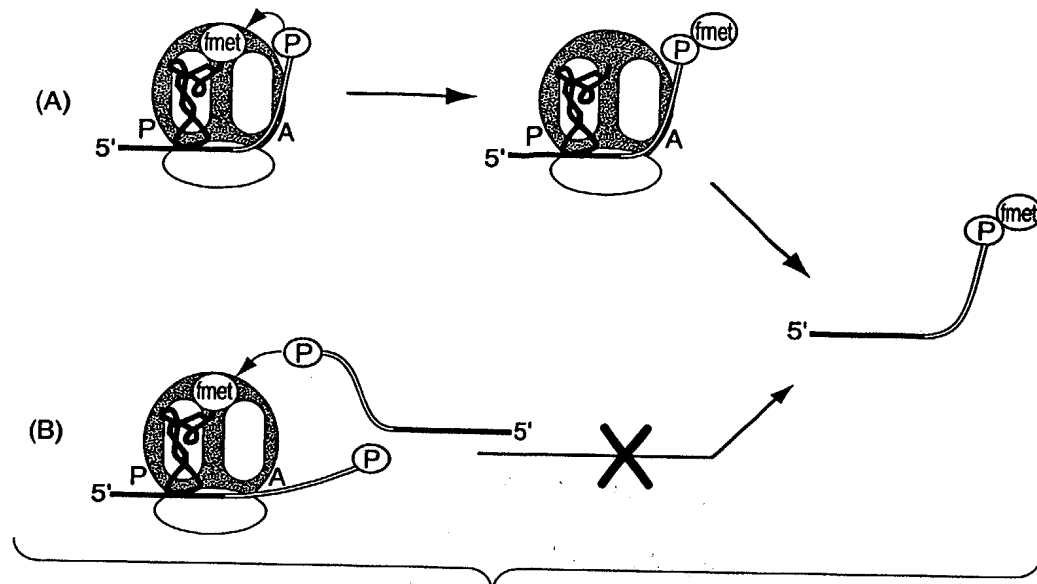


Fig. 5

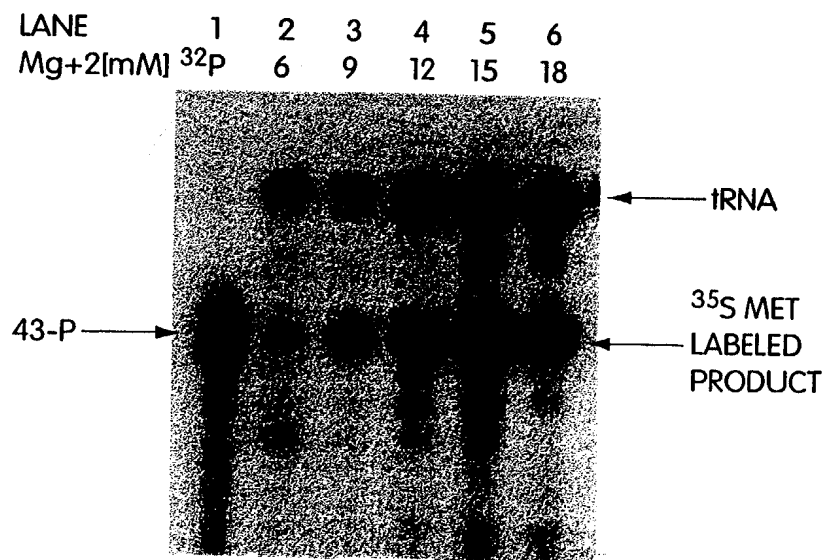


Fig. 6A

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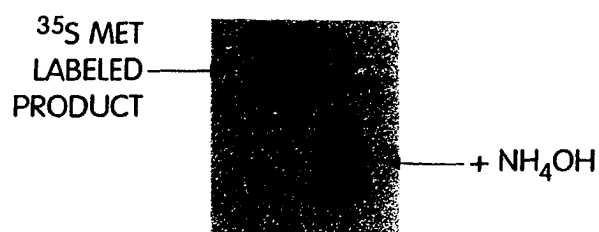


Fig. 6B

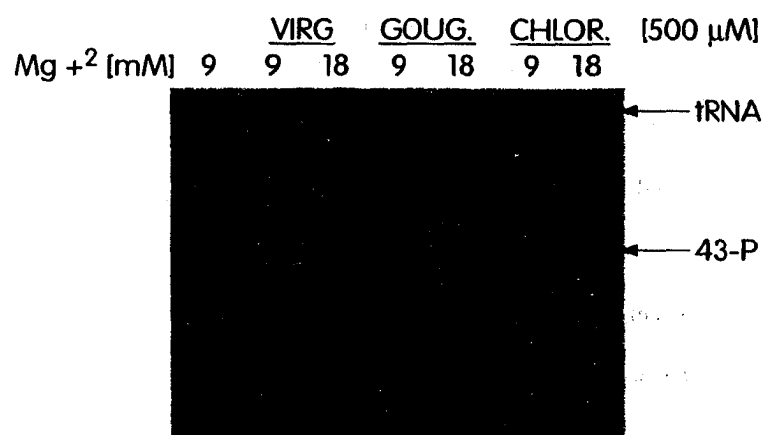


Fig. 6C

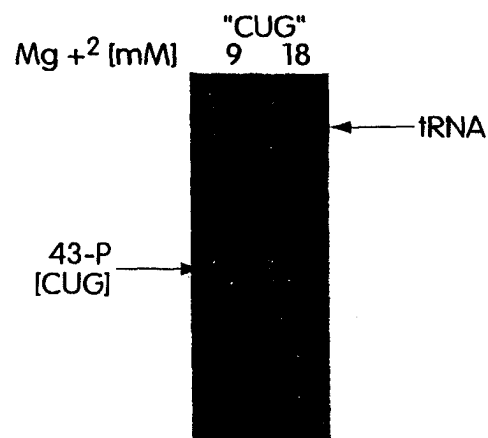


Fig. 6D

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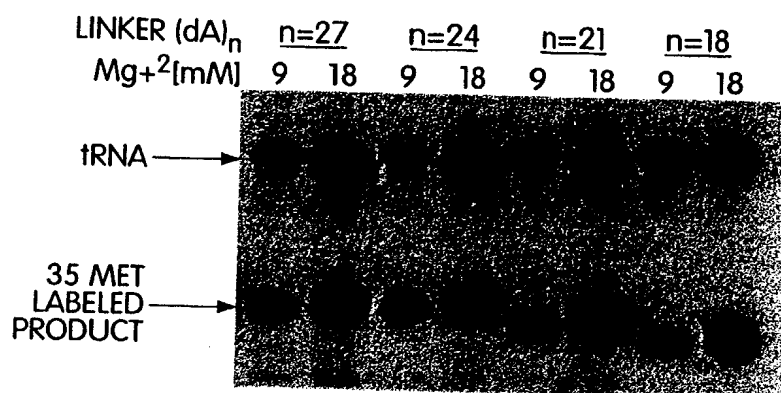


Fig. 6E

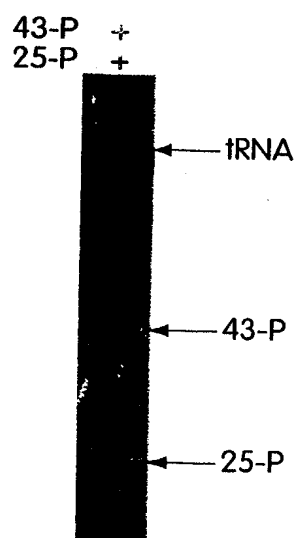


Fig. 6F

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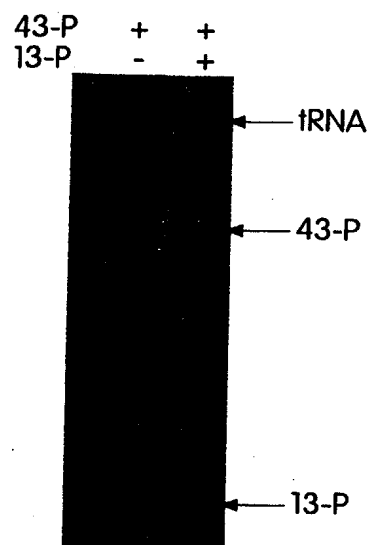


Fig. 6G

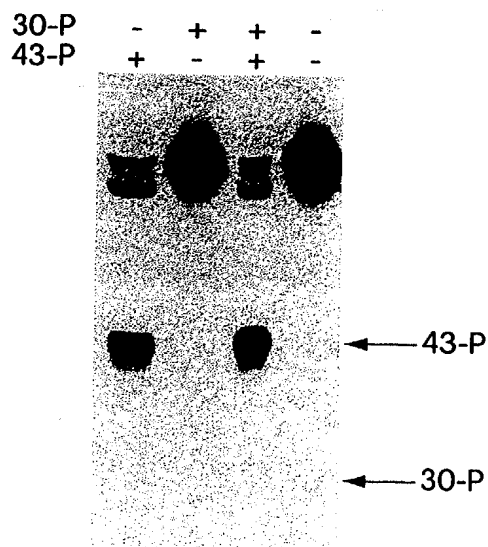


Fig. 6H

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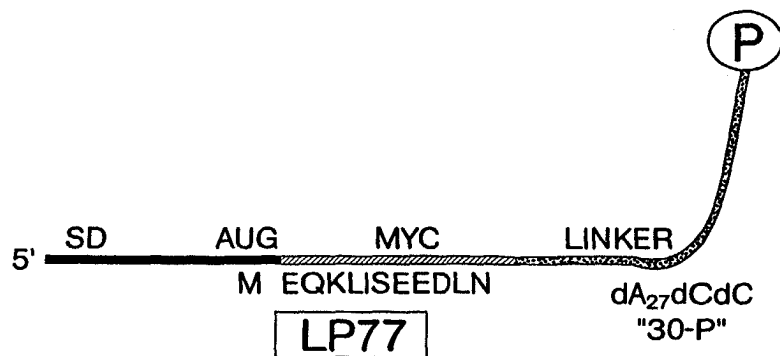


Fig. 7A

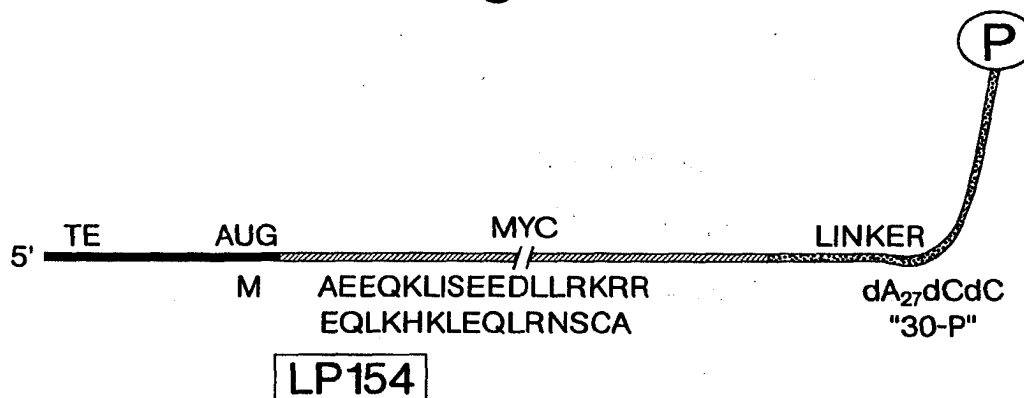


Fig. 7B

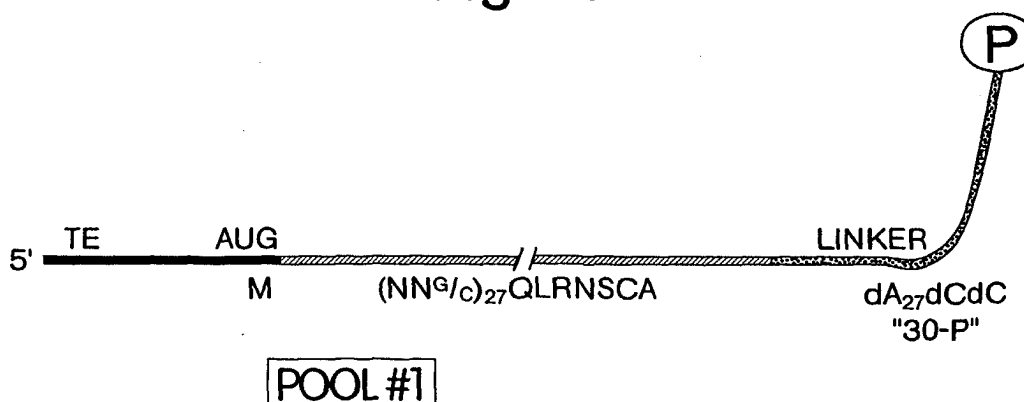


Fig. 7C

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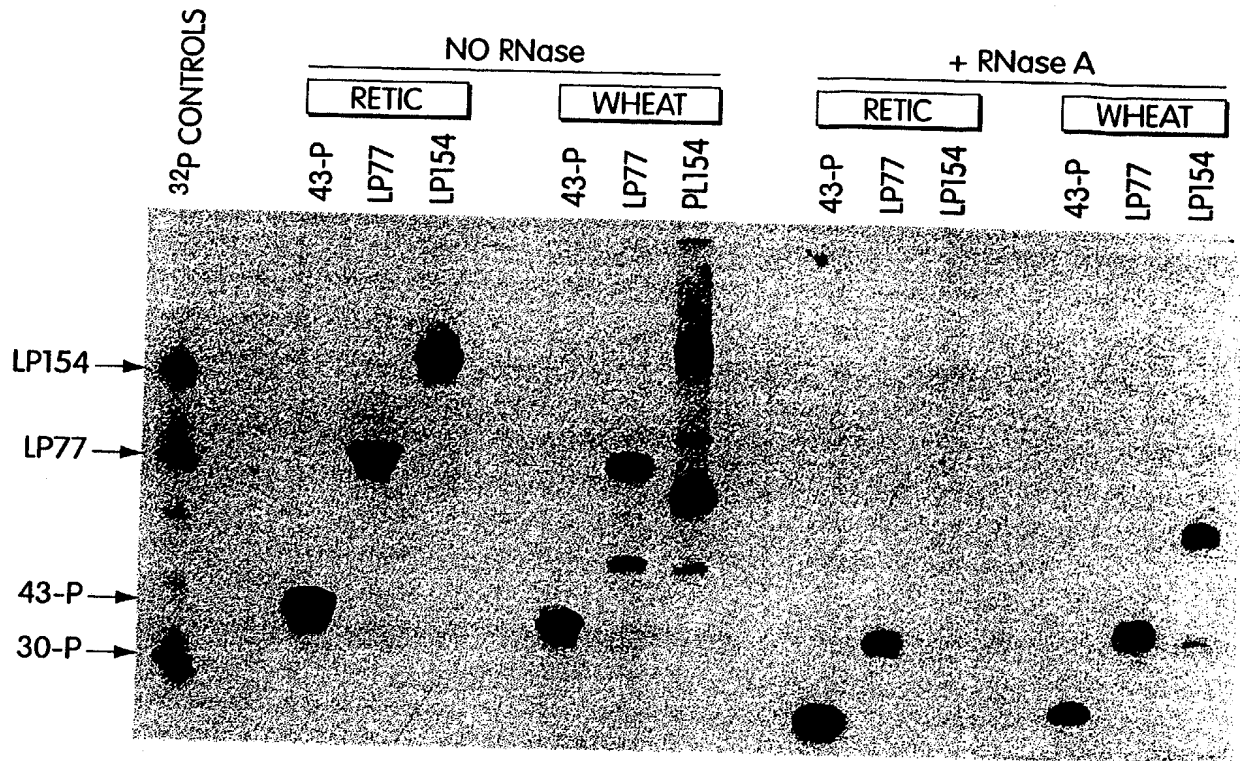


Fig. 8

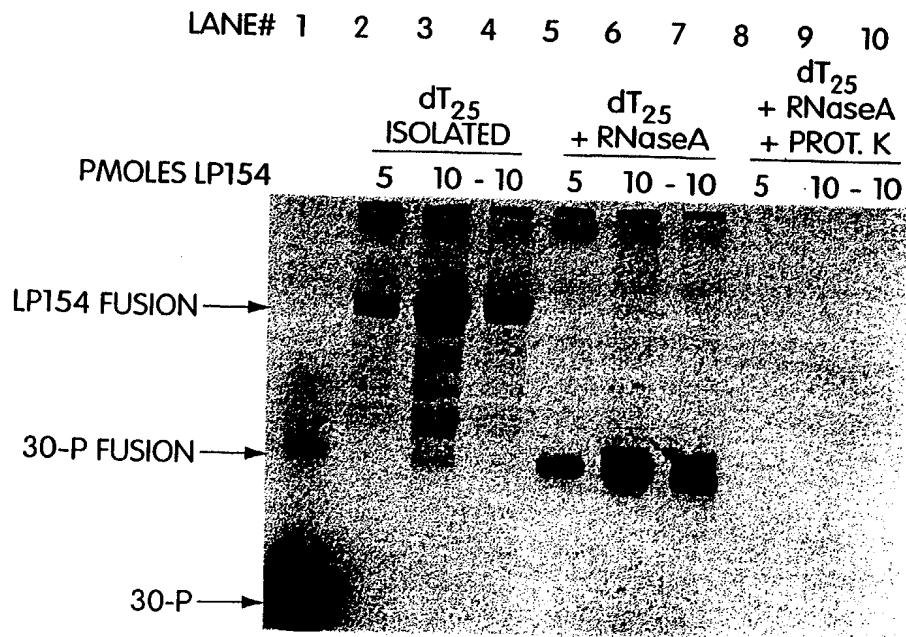


Fig. 9

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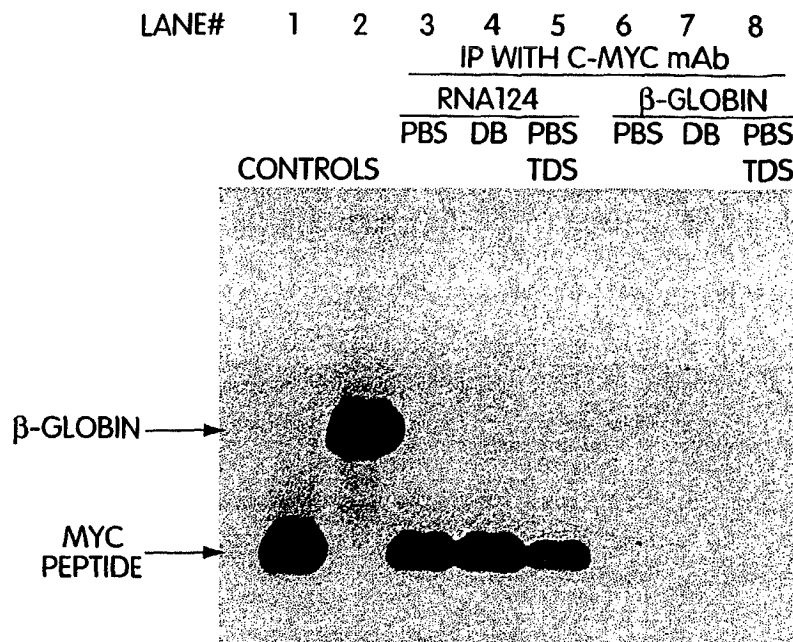


Fig. 10

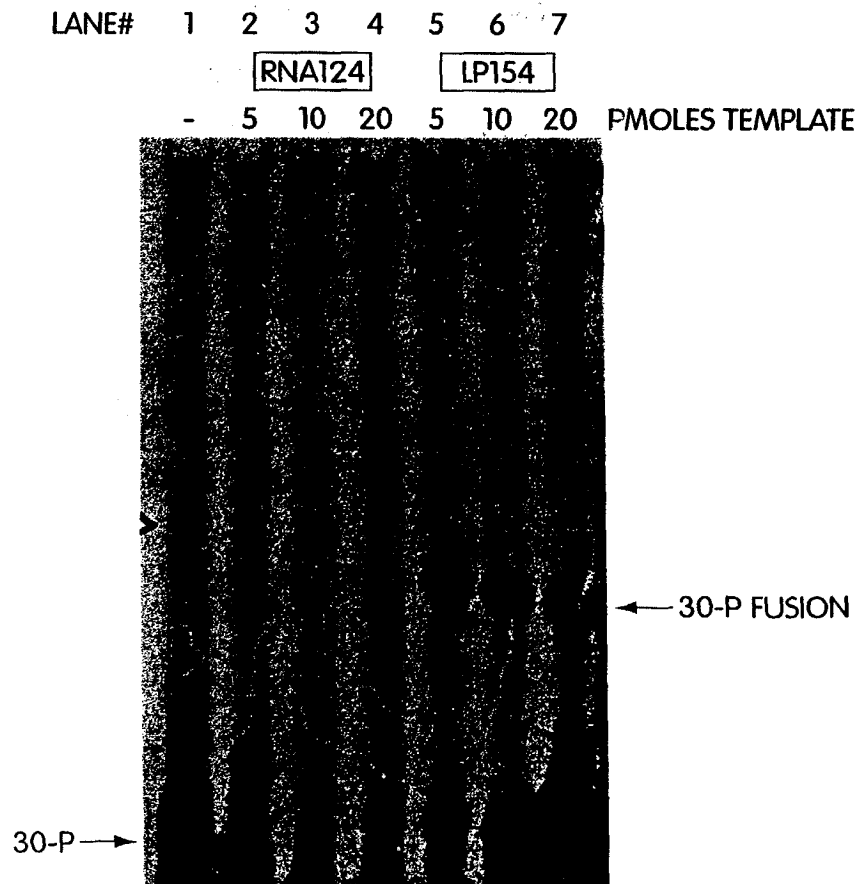


Fig. 11

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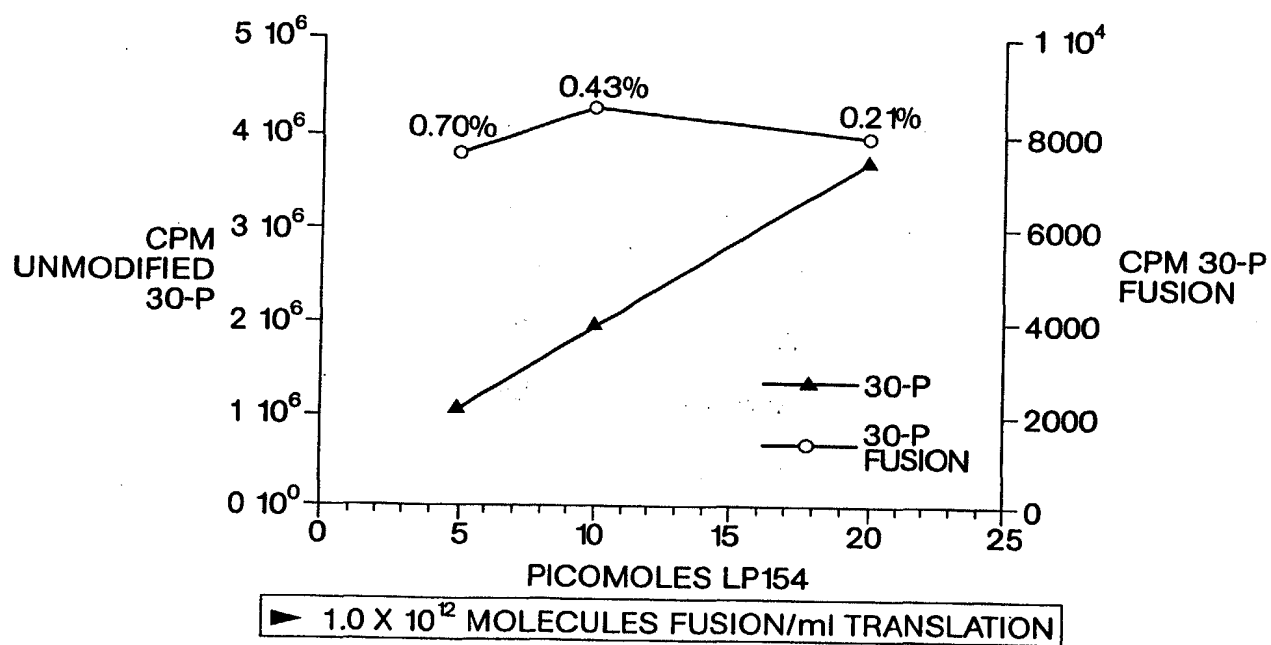


Fig. 12

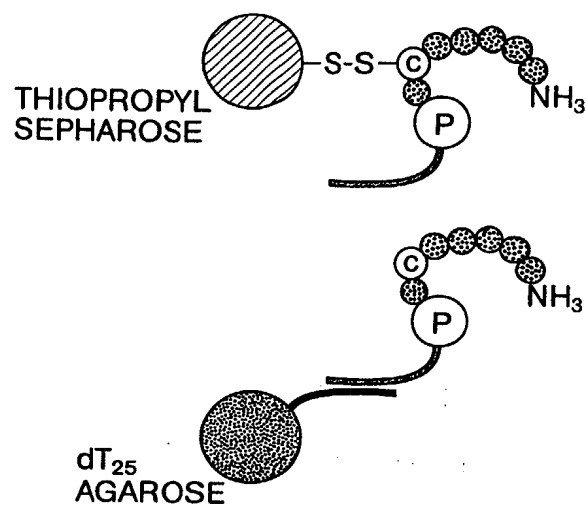


Fig. 13

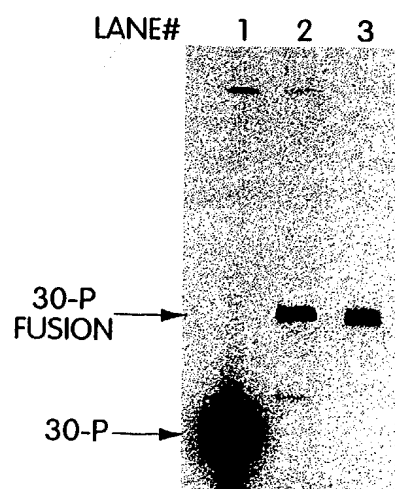


Fig. 14

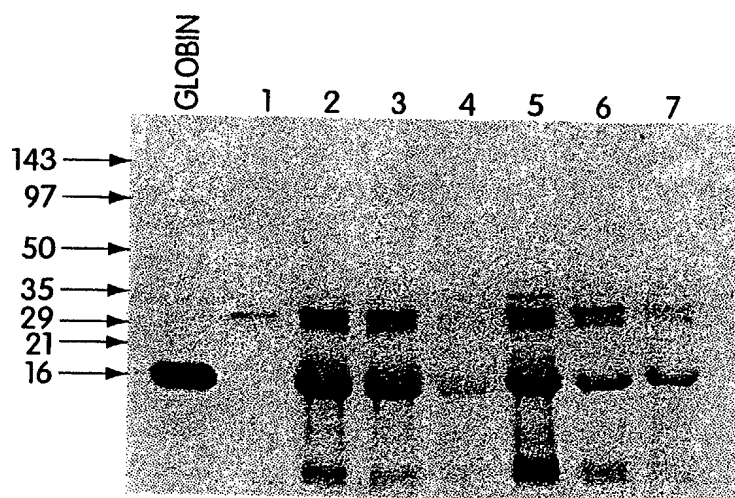


Fig. 15A

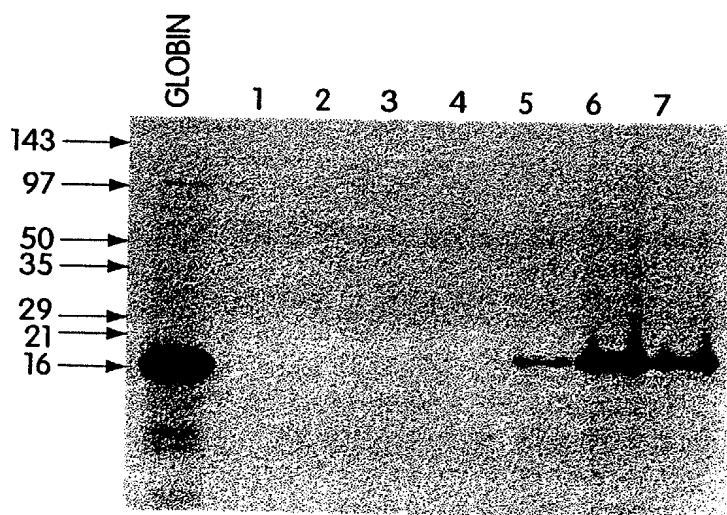


Fig. 15B

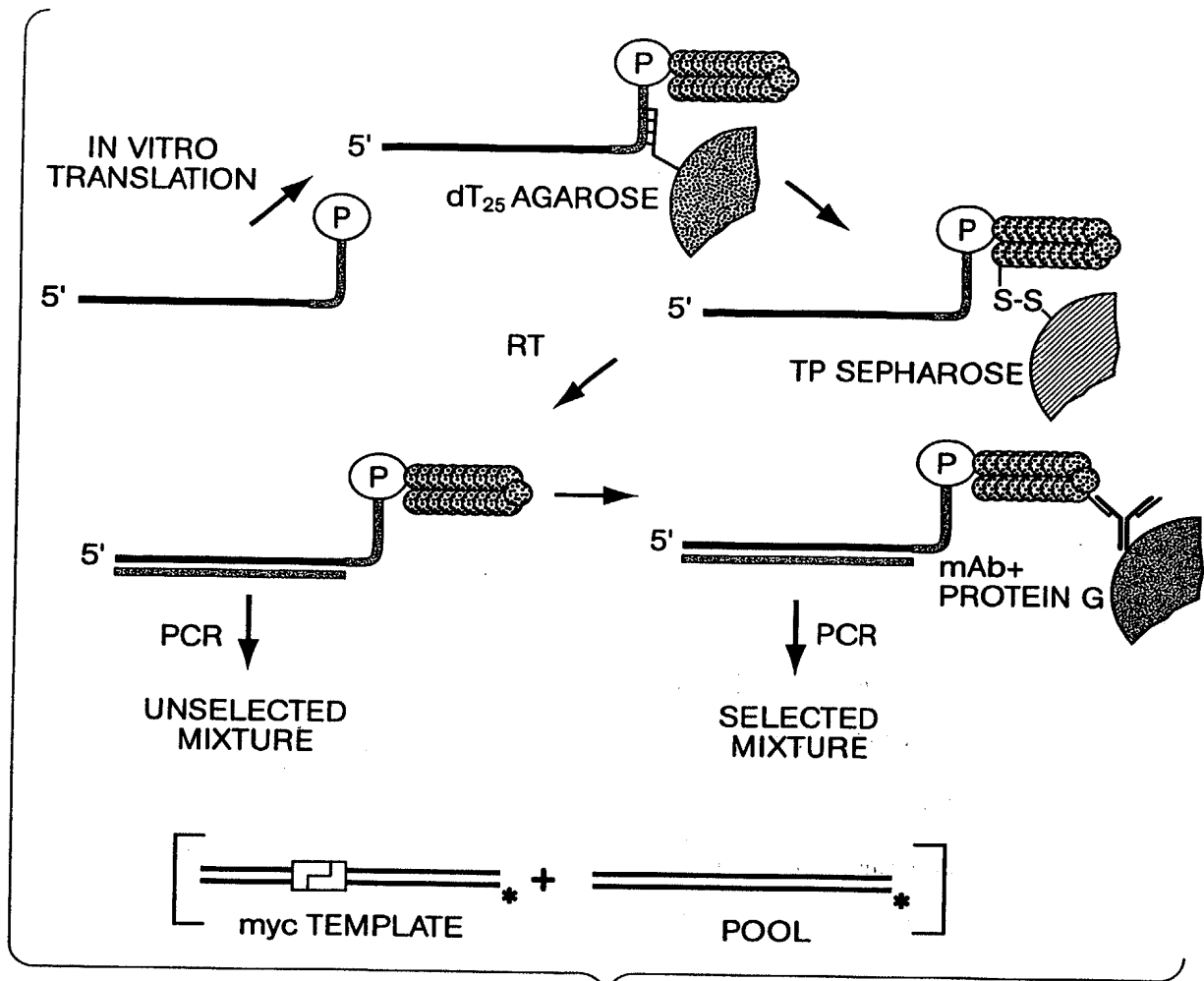


Fig. 16A

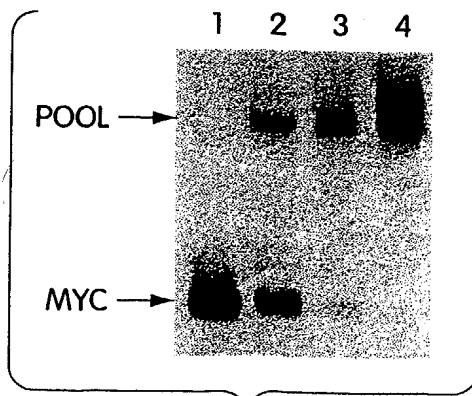


Fig. 16B

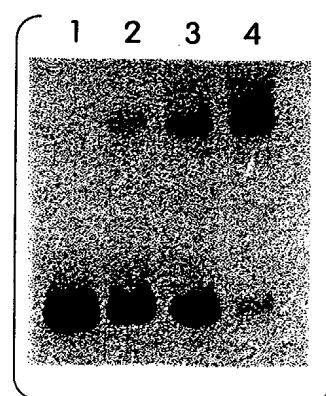


Fig. 16C

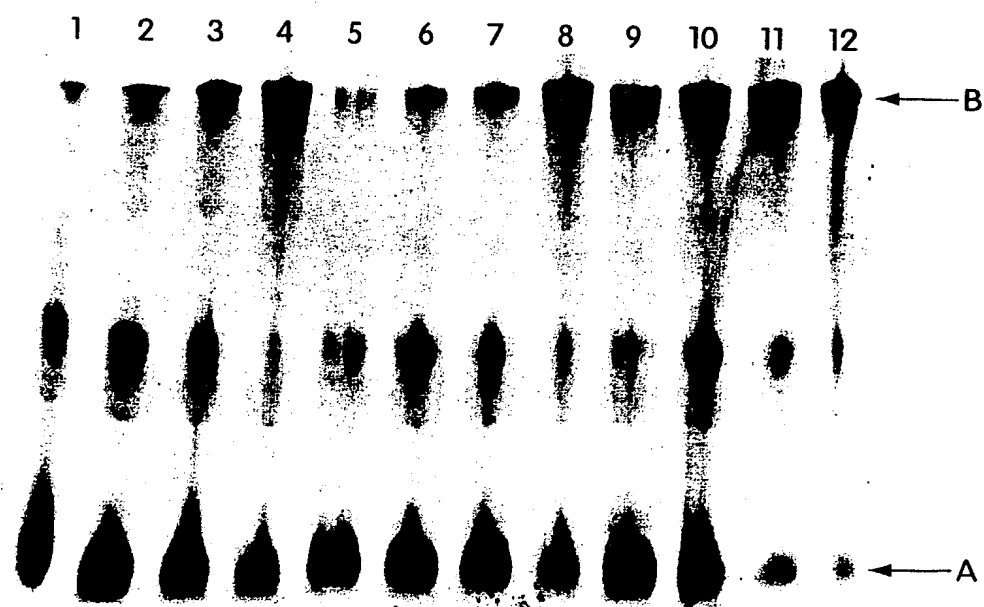


Fig. 17

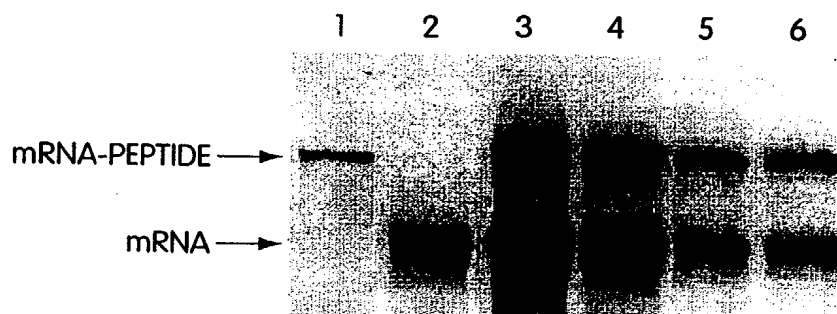


Fig. 18

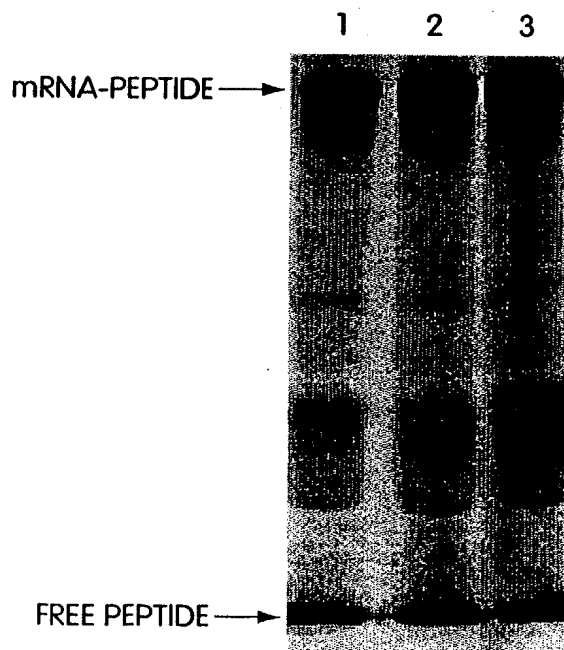


Fig. 19

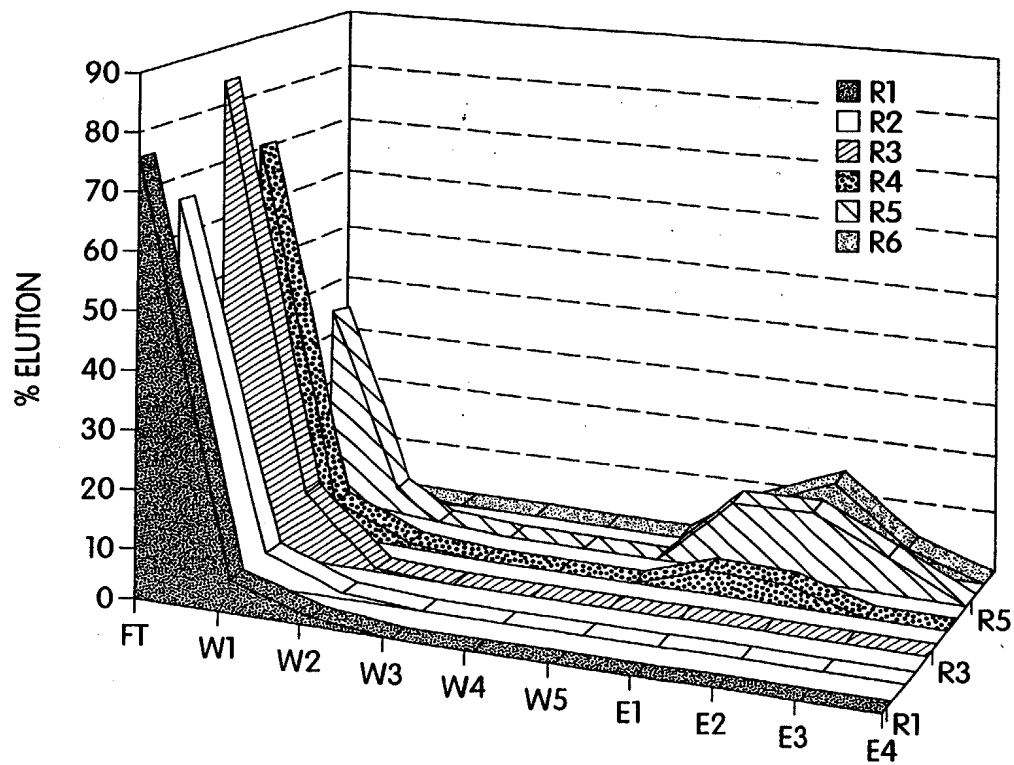


Fig. 20

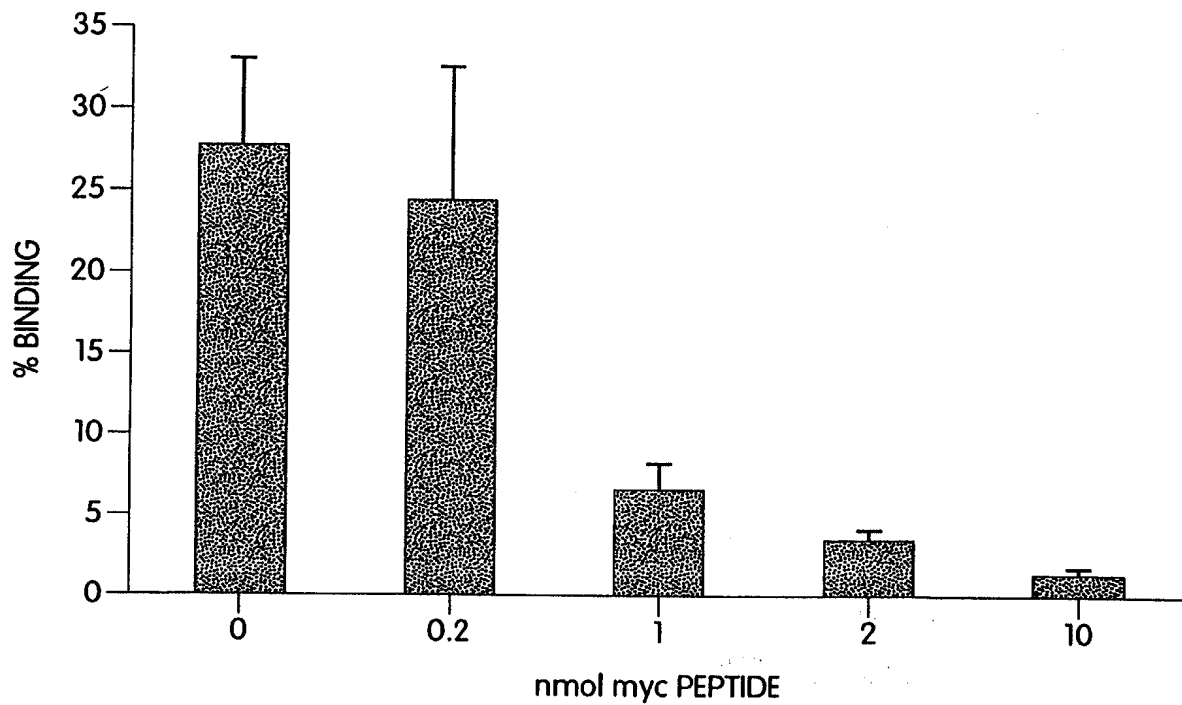


Fig. 21

c-myc EPI TOPE	E	Q	K	L	I	S	E	E	D	L
R6-51	C	A	S	V	I	S	E	R	E	C
R6-52	E	E	Y	L	V	S	E	Y	V	M
R6-53	R	Q	Y	L	I	S	E	Y	E	H
R6-55	L	Q	R	L	I	S	E	Q	M	F
R6-56	I	V	R	L	L	S	E	Y	H	M
R6-58	E	E	Y	L	L	S	E	Y	V	M
R6-60	M	Q	N	L	I	S	E	H	E	L
R6-61	T	M	D	L	I	P	E	H	Y	M
R6-63	E	Q	K	L	I	S	E	E	D	L
R6-66	D	M	M	L	I	S	E	K	E	L
R6-67	F	Q	A	L	I	A	E	E	E	L
R6-68	Q	R	V	L	I	S	E	F	W	L
CONSENSUS	X	Q/E	X	L	I	S	E	X	X	L/M

Fig. 22

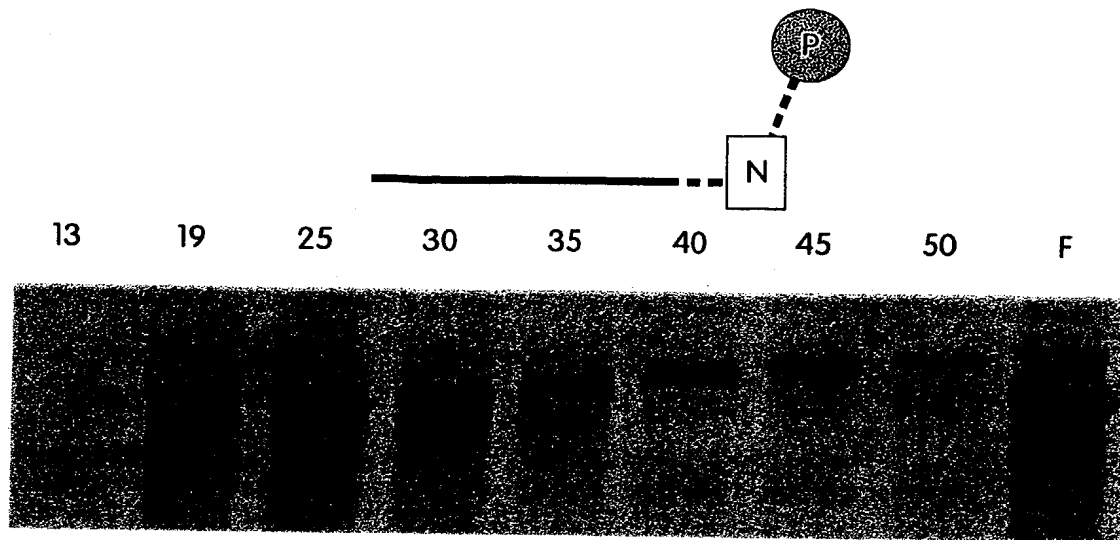


Fig. 23

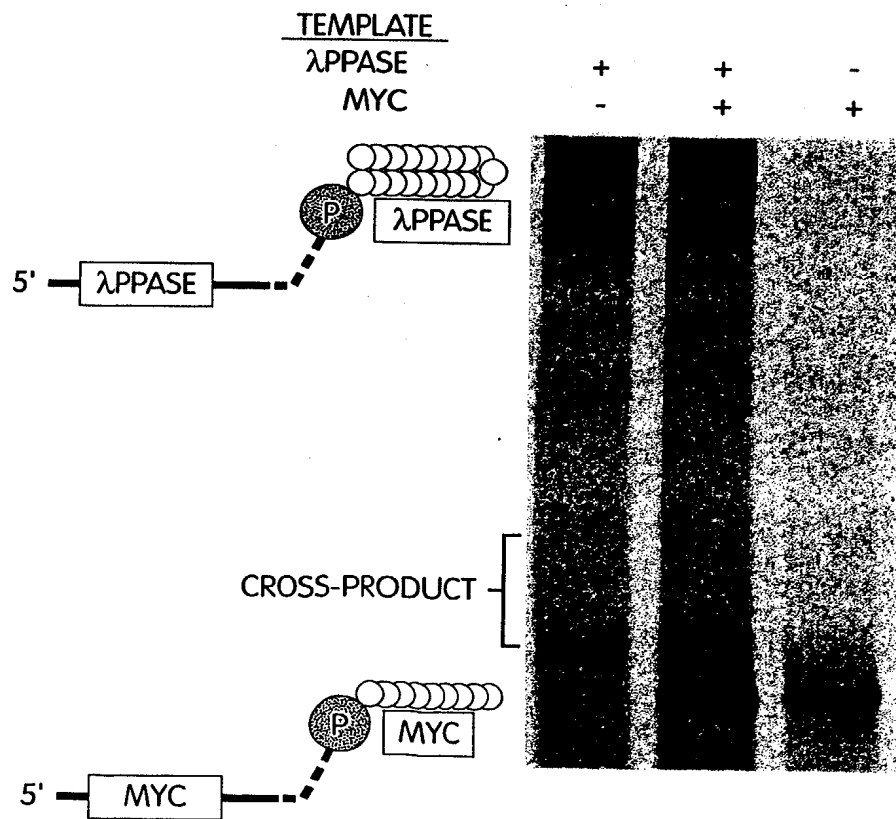


Fig. 24